

Material Safety Data Sheet

Section 1- Chemical Product and Company Identification

【Product Name】 Gardenia Yellow （Gardenia Jasminoides Extract）

【Manufacturer Name】 Guangxi Shanyun Biochemical Science and Technology Co.,Ltd.

【Manufacturer Address】 Luzhai County Economic Development Zone, Liuzhou, Guangxi, China.

【PC】 545 600

【Tel】 +86 772-6828887

【Fax】 +86 772-2329792

【Email】 zhuqr2002@gxqianrong.com

Section 2- Hazards Summarizing

【Dangerous Sort】Gardenia is the first batch of food and medicine plants released by Ministry of Health of the People's Republic of China in 1994. Purified water is used in the production process to extract. The entire production process does not use any organic solvents, so the product has no organic solvent residues and is harmless.

【Invasive Ways:】 N/A

【Health Harm】 N/A

【Environment Hazard】 N/A

【Burning Explosion Harm】 N/A

Section 3- Composition and Information on Ingredients

【CAS No.】 94238-00-3

Items	Powder
Color value E1% 1cm (440nm)	20-500
Geniposide, W/%	≤1(conversion according to the color value of 10)
Loss on drying, W/%	≤7
Arsenic (As) / (mg/kg)	≤2
Lead (Pb) / (mg/kg)	≤3

Section 4- First-aid Measures

【Skin】 If it occurs and makes contact with skin, wash with plenty of water, and the leakage will disappeared.

Section 5- Fire Fighting Measures

N/A

Section 6- Accidental Release Measures

N/A

Section 7- Handling and Storage

【Operation Notes】 The operator must go through specialized training and operate strictly adherence to rules;

【Storage Precaution】 Do not use iron containers to store the product; store the product in sealed, dark condition.

Section 8- Exposure Controls and Personal Protection

N/A

Section 9- Physical and Chemical Properties

【Appearance】 Orange yellow or yellow powder

【Smell】 Hint of gardenia fragrance

【Character】 Easily soluble in water, soluble in ethanol and propylene glycol, insoluble in oil. The water solution shows weak acidity or is neutral. It is transparent bright yellow.

【PH Value】 Its color tone is almost not affected by the changes of the the environment PH value. In PH = 4-11 range, the product can maintain stable yellow color. When the PH value is in the range of 4.0-6.0 or 8.0-11.0 , it is more stable than β -carotene.

【Solubility】 Easily soluble in water, soluble in polar solvents such as ethanol and propylene glycol, insoluble in oil, insoluble in benzene, gasoline and other non-polar

solvents.

【Main Purposes】 Natural colorant.

Section 10- Stability and Reactivity

【Stability】 The pigment has good reduction resistance and microbial resistance. In the PH range of 4-11, the color basically does not change. It also has good resistance to metal ions;

【Avoid Materials】 Iron

【Aggregate Harm】 None

【Decomposition Products】 None

Section 11- Toxicological Information

N/A

Section 12- Ecological Information

N/A

Section 13- Disposal Considerations

N/A

Section 14- Transportation Considerations

【Package】 Inner packing is polyethylene zip lock, .outside packing is aluminized bags, finally packed by carton.

【Notice】 In the case of transportation, confirm the container is complete and sealed.

Section 15- Regulatory Information

Production Safety Law (passed on June 29, 2002 in the twenty-eighth session of Ninth National People's Congress); Environmental Protection Law (passed on December 26, 1989 in the first session of the Seventh NPC Standing Committee); Regulation on Work Safety Licenses (passed on January 7, 2004 in the 52th Meeting of the State Council).

Section 16- Other Information

N/A